

## REPORT SUMMARY | MATERIAL TESTING

<b>Report numbers:</b>	V6324/2015   V6280/2014   V6579/2014   V337/2017   V165/2019
<b>Customer:</b>	aleo solar GmbH
<b>Period of testing</b>	2014 - 2019
<b>Date of report summary:</b>	2019/11/04
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<b>Objective:</b>	<b>Test of foil materials on snail trail sensitivity</b>
<b>Test method:</b>	AgNP test (formation of silver nanoparticles)
<b>Tested materials:</b>	<b>Enapsulation and backsheet foils</b> used for the assembly of the following types of crystalline silicon terrestrial photovoltaic modules: S18YXXX; P18YXXX; S19YXXX; S79YXXX; S59YXXX; P19YXXX; S25YXXX; S75YXXX; X59YXXXZ; X19YXXXZ; X79YXXXZ; X25YXXXZ; X55YXXXZ; X75YXXXZ; P23YXXXZ; X61YXXXZ; X63YXXXZ; X81YXXXZ; X83YXXXZ; S83YXXXZ; S81YXXXZ

"Y" in the model designation represents ".", "U", "G", "H", "J", "K", "L", "T" and "E" denoting essential electrical properties and/or different marketing territories. XXX in the type number replaces the real output of the modules at STC, rounded off in steps of five.

### Test results:

SAMPLE NAME	AgNP TEST	PROGNOSIS FOR SNAIL TRAILS
Back sheet (different types)	negative	resistant
EVA (different types)	negative	resistant
Test laminates thereof	negative	resistant

The test results were obtained from the samples provided by the customer.